Air Quality Pollutant Estimates

Greater Yellowstone Network

		Ozone ----------					NADP (kg/ha/yr) =========		Visibiltiy - IMPROVE	
PARK	CLASS	2ndHi1hr	4thHi8hr	#8hr>85	#1hr>100	Sum06_3M	Total S	Total N	bextClear	bextHazy
Bighorn Ca	2	90.1	69.5	1.1	2.5	10.7	0.73	1.37	6	26
Grand Teto	1	94.6	71.8	1.5	3.4	10.8	0.69	1.39	5	24
Yellowston	1	88.3	69.3	1.1	2.6	8.0	0.58	1.29	5	26

Class: refers to an area's designation under the Clean Air Act

Ozone information represents 5-yr average of annual values from 1995-1999

2nd High 1 hr concentration (ppb): indicates peak values for ozone; old standard of 0.12 ppm (120 ppb) was based on 2nd hi,1-hr ave

4th high 8 hr concentration (ppb): new ozone standard of 0.08 ppm (80 ppb) is based on 4th hi, 8-hr average

#8 hours>85 ppb: indicates how often the area would be in violation of the new 8-hr standard of 0.08 ppb

hours> 100 ppb: high peaks in ozone concentration, as well as cumulative dose, contribute to vegetation injury

SUM06_3mon (ppm-hrs) - sum of hourly ozone conc. ≥0.06 ppm (60 ppb) over 3 months (~ growing season), i.e., cumulative ozone

NADP information represents 6-yr average of annual values from 1995-2000

NADP deposition (kg/ha/yr): estimate of pollutants deposited to ecosystem by precipitation (NADP-National Atmospheric Deposition F

NADP Total S - sulfur from sulfate deposited by precipitation

NADP Total N - inorganic nitrogen (ammonium plus nitrate) deposited by precipitation

Visibility IMPROVE information represents 5-yr average of annual values from 1995-1999

bextClear - measure of light scattering and absorptio n, i.e., extinction, by particles in the air on an average clear day

bextHazy - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average hazy day